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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,235	07/31/2003	Steven W. Reichenthal	BO1-0251US	2460
60483 LEE & HAYE	7590 03/09/200 S DI I C	7	EXAM	INER
421 W. RIVER	•		THERIAULT, STEVEN B	
SUITE 500 SPOKANE, WA 99201			ART UNIT	PAPER NUMBER
			2179	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		03/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/633,235	REICHENTHAL ET AL.			
Office Action Summary	Examiner	Art Unit			
•	Steven B. Theriault	2179			
The MAILING DATE of this communication					
Period for Reply	•	,			
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicate - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNIC. CFR 1.136(a). In no event, however, may a replon. period will apply and will expire SIX (6) MONT attatute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	31 July 2003.				
	This action is non-final.				
3) Since this application is in condition for a	,—				
closed in accordance with the practice ur	nder Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims		·			
4)⊠ Claim(s) <u>1-49</u> is/are pending in the applic	ation.				
4a) Of the above claim(s) is/are with					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-49</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	and/or election requirement.				
Application Papers					
9) The specification is objected to by the Exa	aminer.				
10)⊠ The drawing(s) filed on <u>31 July 2003</u> is/ard		ed to by the Examiner.			
Applicant may not request that any objection t					
Replacement drawing sheet(s) including the c	correction is required if the drawing(s	i) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)∭ All b)∭ Some * c)∭ None of:		•			
1. Certified copies of the priority docu					
2. Certified copies of the priority docu	•	•			
3. Copies of the certified copies of the	•	eceived in this National Stage			
application from the International B					
* See the attached detailed Office action for	a list of the certified copies not re	sceived.			
Attachment(s)	_				
1) ⊠ Notice of References Cited (PTO-892) 2) □ Notice of Draftsperson's Patent Drawing Review (PTO-94	4) Interview Su Paper No(s)	ımmary (PTO-413) /Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Info	ormal Patent Application			
Paper No(s)/Mail Date	6) Other:	<u>-</u>			

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DETAILED ACTION

 This action is responsive to the following communications: Non-provisional application filed 07/31/2003.

2. Claims 1 -49 are pending in the case. Claims 1, 13, 20, 37, and 43 are the independent claims.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-36 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The language of the claims raise a question as to whether the claims are directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result in a practical application producing a concrete, useful and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

With regard to claims 1-36, claims 1-36 recite claim limitations that are not directed to a statutory class of invention as the claimed system refers to software components in a graphical interface within a system. The system is not a process, machine, article of manufacture or composition of matter because it appears that the structure to make the interface available on the display is not claimed and is software per-se.

To expedite a complete examination of the instant application the claims rejected under 35 U.S.C 101 (nonstatutory) above are further rejected as set forth below in anticipation of applicant amending these claims to place them within the four statutory categories of invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 12 are rejected under 35 U.S.C. 102(e) as being anticipated by over Perry et al. 4. U.S. Patent No. 6,945,780 issued Sept. 20, 2005 and filed Apr. 2, 2001.

In regard to Independent claim 1, Perry teaches a graphical user interface input device for creating and editing a simulation model, the device comprising:

- A first component configured to enter and edit platforms and associated attributes, wherein the platforms have been determined to be included within the simulation model (See column 6, lines 1-27). Perry teaches a component allowing a user to add different platforms to the simulation model and allowing the user to edit the model (See also column 9, lines 5-25).
- A second component configured to enter and edit commodities (See Figure 10) Perry shows an example of a component configures to enter commodities.
- A third component configured to perform one of assigning or removing a commodity to or from a platform (See Figure 5). Perry shows assigning the commodities to the platform.

With respect to dependent claim 2, Perry teaches the device further comprising a fourth component configured to create and edit a scenario (See Figure 3a and 11) Perry shows a scenario entry and editing component.

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With respect to **dependent claim 12**, Perry teaches the device wherein the simulation model is created using a simulation reference modeling language (See column 7, lines 60-67 and column 8, lines 1-12).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 3-11 are rejected under 35 U.S.C 103(a) as being unpatentable over Perry et al. U.S. Patent No. 6,945,780 issued Sept. 20, 2005 and filed Apr. 2, 2001.

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With respect to claims 3-11, as indicated in the above discussion Perry teaches each limitation of claim 1.

The present application specification does not provide an intrinsic definition of a pulse or a segment and therefore the Examiner will interpret in the broadest reasonable interpretation the meanings as known to one of ordinary skill in the art. The specification does provide evidence in Figure 5 of a process by which attributes of a battle are added or deleted. The pulse or segment is interpreted from figure 5 as providing further detail of a phase and type of attack that may be used. Therefore, based on the figure the Examiner interprets the pulse and segment as data attributes of a given simulation.

Perry teaches a process by which the user can assign data attributes to a given simulation. Perry teaches the data structures are sent to simulation model that performs a simulation of a weapon in a real world scenario. Elements of a scenario can be input via the interface (See figure 5 and column 9, lines 1-25). The interface shown in figure 15 allows a user to enter element of a scenario and figures 3-12 show a process of entering and editing information for a given platform.

Perry does not expressly teach a component to add or delete a pulse to a scenario; to view the details of a pulse; to add or delete a pulse to a scenario; to add or delete a segment to a pulse, or to define attributes of a platform or segment added to a pulse.

However, these limitations would have been obvious to one of ordinary skill in the art having the teachings of Perry in front of the them, in view of Perry, because Perry teaches that through the graphical interface the user can access the dependencies mode and identify attributes and parameters that are assigned within the model and add, delete values as they choose. "A user can then select **any** input value and generate visual cues, for example check boxes, of all down stream parameters that would be affected by a change in input." Perry also teaches a sensitivities mode that allows a user to adjust design parameters that would effect the performance of the weapon during simulation (See Perry column 8, lines 29-67 and figure 3 and

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5). A textfield or a combobox dropdown are components that the skilled artisan would allow the user to either enter or select or visa-versa to add or delete information.

Moreover, Figures 6-11 shows a variety of components that allow the user to add, delete, or change a variety of inputs or data attributes that would change the simulation. The data attributes are then saved and sent to a simulation model to be executed on a variety of combat models (See column 9, lines 1-25). Therefore, the structure of Perry provides an interface that comprises components that allow the user to add and delete data attributes of a simulation model. The motivation or suggestion in Perry comes from the statement that one of ordinary skill in the art would be aware that a multitude of interface designs can be employed (See column 10, lines 43-46).

7 Claims 13-49 are rejected under 35 U.S.C 103(a) as being unpatentable over Perry et al.

(hereinafter Perry) U.S. Patent No. 6,945,780 issued Sept. 20, 2005 and filed Apr. 2, 2001 in view of Sinex et al. (hereinafter Sinex) "Linking warfighting and logistics" 2000.

In regard to **Independent claim 13**, Perry teaches the graphical user interface output device for presenting a model simulated within a scenario, the device comprising:

 One or more platform directory structures configured to store platform information based on platform type (Perry column 8, lines 1-12). Perry teaches that a variety of weapons types can be included in the system and selected in figure 10.

Perry does not expressly teach:

 A directory structure including: a plurality of organizational units, each organizational unit being determined to be included within the model to be simulated

Sinex teaches a warfighting simulation system that allows the user to see a directory of organizations that are scheduled and actively participating in a simulated battle (See page 290, left and page 293). Sinex and Perry are analogous art because they both teach simulation

systems and the both teach battlefield simulations. They also both teach the creation of models to simulate interaction and the ability to select a given weapon or unit from the interface.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of invention having the teaching of Sinex and Perry in front of them to modify the system of Perry to include data attributes of an organization where a user can select a given unit from a list. The motivation to combine Sinex with Perry comes from the suggestion in Sinex to provide not only the logistics of a given weapon or organization but also to link it to the warfighting scenario (See page 290, left).

With respect to **dependent claim 14**, Perry teaches the device further comprising a commodities output area configured to present commodity usage information (See Perry figure 5 and column 11, lines 25-67).

With respect to **dependent claim 15**, Perry teaches the device wherein the commodities output area includes a commodities usage list configured to present commodity usage information of one of a platform, group of platforms, or organizational unit selected in the directory structure (See Perry figure 5 and column 11, lines 25-67).

With respect to **dependent claim 16**, Perry teaches the device wherein the commodities output area includes a component configured to present effectiveness information (See Perry figure 16 and column 8, lines 55-67 and column 14, lines 1-45).

With respect to **dependent claim 17**, Perry teaches the device wherein the commodities output area further includes a graph for presenting commodity usage over time based on one of the selected operational unit, platform, or group of platforms from the directory structure and a commodity selected from the commodities output area (Perry column 8, lines 20-25).

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With respect to **dependent claim 18**, Perry teaches the device wherein the commodities output area includes a color component configured to display a color patch adjacent to commodity usage information, wherein the color component presents a color based on commodity usage in the simulation model (See Figure 19 and column 14, lines 55-67 and column 15, lines 1-20).

With respect to **dependent claim 19**, Perry teaches the device wherein the simulation model is created using a simulation reference modeling language (See column 7, lines 60-67 and column 8, lines 1-12).

In regard to **Independent claim 20**, Perry teaches a graphical user interface device for creating and editing a simulation model and presenting the simulation model run within a scenario, the device comprising:

- A first component configured to enter and edit platforms and associated attributes,
 wherein the platforms have been determined to be included within the simulation model
 (See column 6, lines 1-27). Perry teaches a component allowing a user to add different
 platforms to the simulation model and allowing the user to edit the model (See also
 column 9, lines 5-25).
- A second component configured to enter and edit commodities (See Figure 10) Perry shows an example of a component configures to enter commodities.
- A third component configured to perform one of assigning or removing a commodity to or from a platform (See Figure 5). Perry shows assigning the commodities to the platform.
- One or more platform directory structures configured to store platform information based on platform type (Perry column 8, lines 1-12). Perry teaches that a variety of weapons types can be included in the system and selected in figure 10.

Perry does not expressly teach:

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 A directory structure including: a plurality of organizational units, each organizational unit being determined to be included within the model to be simulated

Sinex teaches a warfighting simulation system that allows the user to see a directory of organizations that are scheduled and actively participating in a simulated battle (See page 290, left and page 293). Sinex and Perry are analogous art because they both teach simulation systems and the both teach battlefield simulations. They also both teach the creation of models to simulate interaction and the ability to select a given weapon or unit from the interface.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of invention having the teaching of Sinex and Perry in front of them to modify the system of Perry to include data attributes of an organization where a user can select a given unit from a list. The motivation to combine Sinex with Perry comes from the suggestion in Sinex to provide not only the logistics of a given weapon or organization but also to link it to the warfighting scenario (See page 290, left).

With respect to **dependent claim 21**, Perry teaches the device further comprising a fourth component configured to create and edit a scenario (Perry figure 11).

With respect to **claims 22-30**, as indicated in the above discussion Perry in view of Sinex teaches each limitation of claim 13.

The present application specification does not provide an intrinsic definition of a pulse or a segment and therefore the Examiner will interpret in the broadest reasonable interpretation the meanings as known to one of ordinary skill in the art. The specification does provide evidence in Figure 5 of a process by which attributes of a battle are added or deleted. The pulse or segment is interpreted from figure 5 as providing further detail of a phase and type of attack that may be used. Therefore, based on the figure the Examiner interprets the pulse and segment as data attributes of a given simulation.

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Perry teaches a process by which the user can assign data attributes to a given simulation. Perry teaches the data structures are sent to simulation model that performs a simulation of a weapon in a real world scenario. Elements of a scenario can be input via the interface (See figure 5 and column 9, lines 1-25). The interface shown in figure 15 allows a user to enter element of a scenario and figures 3-12 show a process of entering and editing information for a given platform.

Perry does not expressly teach a component to add or delete a pulse to a scenario; to view the details of a pulse; to add or delete a pulse to a scenario; to add or delete a segment to a pulse, or to define attributes of a platform or segment added to a pulse.

However, these limitations would have been obvious to one of ordinary skill in the art having the teachings of Perry in front of the them, in view of Perry, because Perry teaches that through the graphical interface the user can access the dependencies mode and identify attributes and parameters that are assigned within the model and add, delete values as they choose. "A user can then select **any** input value and generate visual cues, for example check boxes, of all down stream parameters that would be affected by a change in input." Perry also teaches a sensitivities mode that allows a user to adjust design parameters that would effect the performance of the weapon during simulation (See Perry column 8, lines 29-67 and figure 3 and 5). A textfield or a combobox dropdown are components that the skilled artisan would allow the user to either enter or select or visa-versa to add or delete information.

Moreover, Figures 6-11 shows a variety of components that allow the user to add, delete, or change a variety of inputs or data attributes that would change the simulation. The data attributes are then saved and sent to a simulation model to be executed on a variety of combat models (See column 9, lines 1-25). Therefore, the structure of Perry provides an interface that comprises components that allow the user to add and delete data attributes of a simulation model. The motivation or suggestion in Perry comes from the statement that one of ordinary skill in the art would be aware that a multitude of interface designs can be employed (See column 10, lines 43-46).

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With respect to **dependent claim 31**, Perry teaches the device further comprising a commodities output area configured to present commodity usage information (See Perry figure 5 and column 11, lines 25-67).

With respect to **dependent claim 32**, Perry teaches the device wherein the commodities output area includes a commodities usage list configured to present the commodity usage information of one of a platform, group of platforms, or organizational unit selected in the directory structure (See Perry figure 5 and column 11, lines 25-67).

With respect to **dependent claim 33**, Perry teaches the device wherein the commodities output area includes a component configured to present effectiveness information (See Perry figure 16 and column 8, lines 55-67 and column 14, lines 1-45).

With respect to **dependent claim 34**, Perry teaches the device wherein the commodities output area further includes a graph for presenting commodity usage over time based on one of the selected operational unit, platform, or group of platforms from the directory structure and a commodity selected from the commodities output area (Perry column 8, lines 20-25).

With respect to **dependent claim 35**, Perry teaches the device wherein the commodities output area includes a color component configured to display a color patch adjacent to commodity usage information, wherein the color component presents a color based on commodity usage in the simulation model (See Figure 19 and column 14, lines 55-67 and column 15, lines 1-20).

With respect to **dependent claim 36**, Perry teaches the device wherein the simulation model is created using a simulation reference modeling language (See column 7, lines 60-67 and column 8, lines 1-12).

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In regard to claims 37-42, claims 37-42 reflects the method comprising steps for performing the

limitations of the graphical interface claims 13-19, respectively, are rejected along the same

rationale.

In regard to claims 43-49, claims 43-49 reflects the system comprising computer readable

instructions for performing the limitations of the graphical interface claims 13-19, respectively, are

rejected along the same rationale.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Steven B. Theriault whose telephone number is (571) 272-5867. The examiner can

normally be reached on M-F 7:30 - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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1000.

SBT

WEILUN LO

SUPERVISORY PATENT EXAMINER